

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P892606

Luminaire Tested: 2MB-3SL-ASMF-UNV-L835

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P892606  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-ASMF-UNV-L835  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 80CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

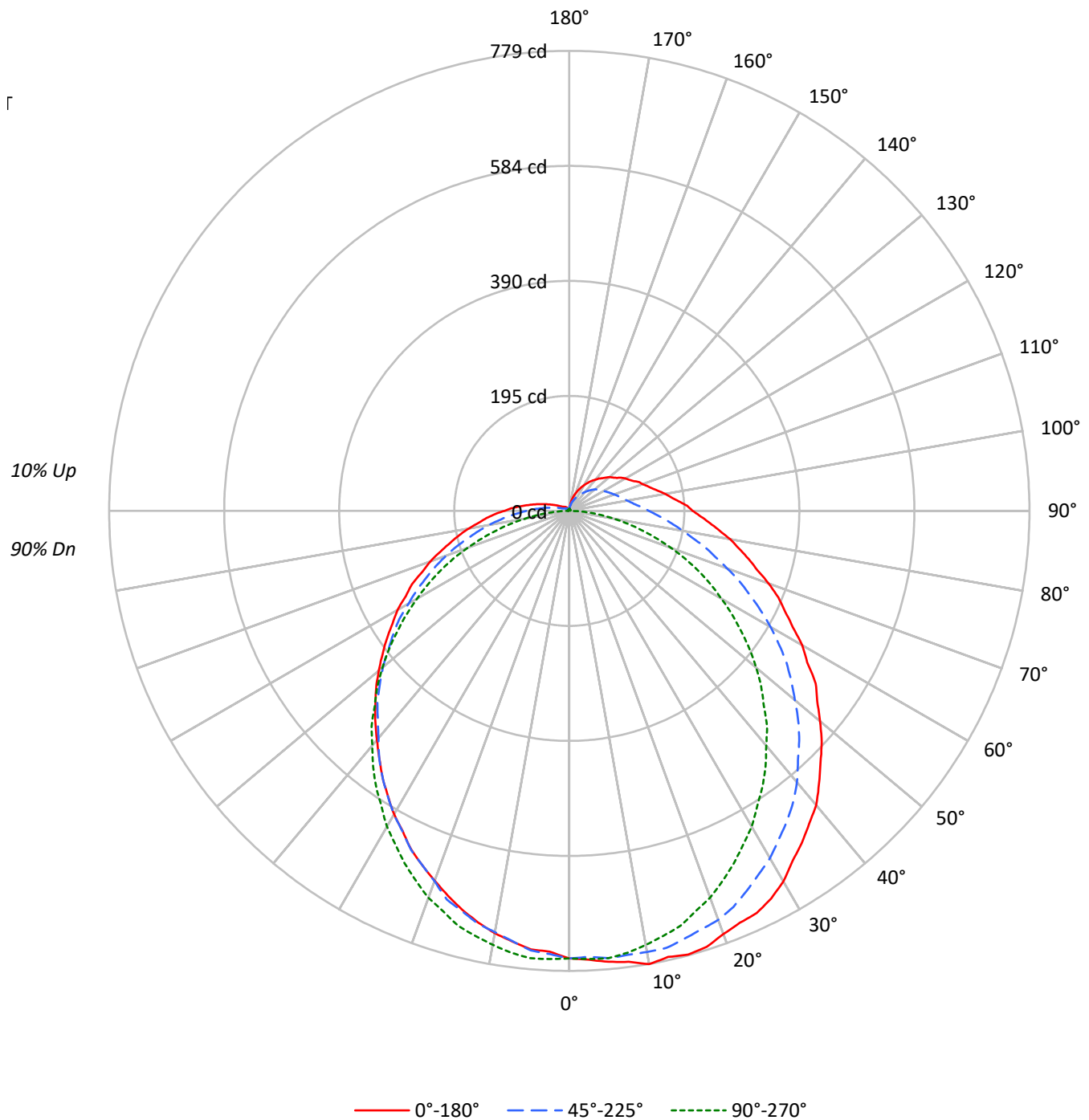
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2605.0 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 8  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P892606  
CATALOG NUMBER: 2MB-3SL-ASMF-UNV-L835

### Luminous Intensity Polar Plot





TEST NUMBER: P892606

CATALOG NUMBER: 2MB-3SL-ASMF-UNV-L835

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	90
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	75	75	75	72
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	62	62	62	59
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	52	52	52	49
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	44	44	44	42
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	38	38	38	36
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	34	34	34	31
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	30	30	30	28
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	24	24	24	22
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	22	22	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	15515	15515	15515	15515	15515
5°	15667	15128	15010	14866	15233
10°	16025	14785	14328	14120	14933
15°	16214	14449	13693	13507	14578
20°	16244	14124	12969	12781	14195
25°	16487	13646	12206	12177	13892
30°	16532	13188	11481	11524	13535
35°	16434	12690	10721	10898	13195
40°	16513	12175	9938	10197	12857
45°	16386	11573	9168	9660	12641
50°	16419	10956	8427	9048	12469
55°	16674	10413	7579	8437	12342
60°	16811	9747	6710	7786	12403
65°	17201	9030	5829	7142	12545
70°	18320	8341	4778	6525	12774
75°	20110	7828	3654	5811	13342
80°	23979	7326	2446	5178	15028
85°	32609	7167	1226	4523	19183

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 67657 cd/sqm



TEST NUMBER: P892606  
 CATALOG NUMBER: 2MB-3SL-ASMF-UNV-L835

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	2.8
10°-20°	206.0	7.9
20°-30°	310.7	11.9
30°-40°	372.9	14.3
40°-50°	388.3	14.9
50°-60°	360.0	13.8
60°-70°	296.4	11.4
70°-80°	213.8	8.2
80°-90°	135.8	5.2
90°-100°	83.7	3.2
100°-110°	55.8	2.1
110°-120°	39.7	1.5
120°-130°	29.1	1.1
130°-140°	20.0	0.8
140°-150°	12.2	0.5
150°-160°	6.0	0.2
160°-170°	2.2	0.1
170°-180°	0.4	0.0
0°-30°	588.6	22.6
0°-40°	961.5	36.9
0°-60°	1709.8	65.6
0°-90°	2355.8	90.4
90°-120°	179.2	6.9
90°-150°	240.6	9.2
90°-180°	249.0	9.6
0°-180°	2605.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	758	758	758	758	758	
5°	766	760	760	747	745	73
15°	778	750	727	702	699	219
25°	751	710	659	634	633	345
35°	686	642	570	551	551	430
45°	602	550	466	460	464	465
55°	509	449	355	364	377	452
65°	403	337	242	267	294	401
75°	314	238	127	177	208	333
85°	239	162	33	102	141	203
90°	209	135	3	73	110	115
95°	186	114	2	49	84	148
105°	146	89	2	20	44	156
115°	120	74	2	10	21	120
125°	97	62	3	8	12	89
135°	78	49	3	6	9	61
145°	60	35	3	4	6	38
155°	41	23	3	3	4	19
165°	24	13	3	2	2	7
175°	3	6	3	2	0	1
180°	2	2	2	2	2	



TEST NUMBER: P892606  
 CATALOG NUMBER: 2MB-3SL-ASMF-UNV-L835

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7	757.7
2.5°	760.7	763.0	755.8	760.3	759.6	760.3	751.2	758.8	747.1
5°	766.4	767.5	760.3	763.0	760.3	753.9	747.1	744.4	745.2
7.5°	770.2	776.2	758.4	759.2	754.7	747.8	735.0	737.2	735.7
10°	779.3	772.5	758.4	755.0	746.3	739.1	724.3	725.5	726.2
12.5°	773.6	772.1	758.1	745.6	736.8	730.8	715.6	711.8	713.7
15°	777.8	771.3	750.5	740.6	727.4	716.8	701.6	699.0	699.3
17.5°	774.0	768.7	742.9	729.3	710.7	704.3	689.9	685.3	683.1
20°	762.6	760.0	737.2	713.7	697.1	684.6	667.1	664.5	666.4
22.5°	755.0	748.6	725.9	702.4	678.1	667.1	649.7	649.3	649.7
25°	751.2	742.9	710.3	685.7	658.8	649.0	633.8	628.1	633.0
27.5°	739.9	732.3	694.0	667.1	637.2	624.0	611.5	610.3	611.1
30°	724.7	709.9	679.3	646.3	617.5	603.9	593.6	586.1	593.3
32.5°	703.1	694.8	659.9	624.0	592.1	582.7	572.4	571.7	571.7
35°	686.5	680.4	641.8	604.3	570.2	557.3	551.2	548.6	551.2
37.5°	667.1	658.0	622.4	580.4	545.5	534.5	528.5	526.2	528.1
40°	650.5	633.8	599.7	555.8	518.6	508.8	502.3	504.6	506.5
42.5°	625.8	616.4	572.8	530.8	495.5	484.9	479.6	481.5	486.1
45°	601.6	592.9	550.5	504.6	465.6	459.9	459.5	458.4	464.1
47.5°	579.6	567.1	525.8	478.9	440.6	434.2	434.9	438.7	443.6
50°	554.2	539.5	498.6	451.2	412.9	408.8	411.8	414.5	420.9
52.5°	528.9	517.1	473.6	425.1	384.9	381.9	386.0	394.8	398.5
55°	509.2	487.9	448.9	394.4	355.0	355.4	363.7	368.6	376.9
57.5°	477.7	461.8	420.9	367.1	326.9	329.6	341.0	349.3	354.6
60°	455.4	435.3	393.6	337.9	297.4	301.6	314.4	326.9	336.0
62.5°	426.6	409.1	365.2	309.1	270.1	276.2	290.6	305.3	311.8
65°	403.1	383.4	337.2	280.3	241.7	248.9	266.7	283.4	294.0
67.5°	383.0	362.6	312.2	253.8	212.9	223.5	244.4	260.6	269.0
70°	359.1	335.3	283.8	224.3	183.0	195.5	222.0	240.9	250.4
72.5°	333.8	314.4	259.1	197.0	155.3	170.5	199.6	219.3	228.4
75°	314.1	292.5	238.3	169.7	127.3	145.5	176.9	199.3	208.4
77.5°	294.0	274.3	214.8	144.7	102.3	122.7	156.8	181.5	190.9
80°	276.2	253.4	195.1	124.3	76.1	100.4	137.9	162.1	173.1
82.5°	256.5	236.8	178.1	102.7	54.2	79.9	119.3	145.9	154.9
85°	239.0	218.6	162.1	85.6	33.3	61.8	102.3	129.6	140.6
87.5°	223.1	206.1	147.4	72.7	16.7	47.0	86.0	113.7	126.2
90°	208.7	189.4	134.9	61.0	3.0	34.1	72.7	100.0	109.5
92.5°	199.6	176.5	124.6	53.4	1.9	24.2	60.6	87.5	98.5
95°	186.0	165.6	114.0	47.7	1.9	16.3	48.9	75.0	84.5
97.5°	174.3	155.3	106.5	44.3	1.5	11.0	40.2	62.9	72.7
100°	165.2	147.4	99.6	41.3	1.9	8.0	31.8	53.4	62.1
102.5°	154.9	138.7	94.3	39.4	1.9	5.7	25.0	45.1	53.0
105°	145.9	131.5	89.4	37.5	1.9	4.9	20.1	37.1	44.3
107.5°	139.0	123.9	85.2	36.4	1.9	4.9	15.9	30.3	36.4
110°	132.2	117.8	81.1	35.2	1.9	4.5	12.5	25.0	30.3



TEST NUMBER: P892606

CATALOG NUMBER: 2MB-3SL-ASMF-UNV-L835

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	127.7	112.1	77.3	34.1	2.3	4.5	10.2	20.8	25.0
115°	119.7	107.2	73.9	33.7	2.3	4.2	9.5	17.0	21.2
117.5°	114.0	102.7	70.5	32.6	2.3	4.2	9.1	14.0	17.0
120°	109.9	97.4	67.4	31.4	2.3	3.8	8.3	12.5	14.4
122.5°	104.6	92.4	64.8	30.7	2.3	3.8	8.0	11.7	12.9
125°	97.4	87.9	61.8	29.2	2.7	3.8	7.6	11.0	12.1
127.5°	92.8	83.7	59.5	27.3	2.7	3.4	7.2	10.2	11.4
130°	89.0	79.2	56.8	25.4	2.7	3.4	6.8	9.5	10.6
132.5°	83.3	74.6	53.0	23.9	2.7	3.0	6.1	8.7	9.8
135°	78.0	70.8	49.2	22.4	2.7	3.0	5.7	8.3	9.1
137.5°	74.6	67.1	45.8	20.8	2.7	2.7	5.3	7.6	8.3
140°	68.9	62.9	42.1	19.3	2.7	2.7	4.9	7.2	7.6
142.5°	64.8	58.7	38.6	17.8	2.7	2.7	4.5	6.4	7.2
145°	59.9	54.6	34.9	16.3	2.7	2.3	4.2	6.1	6.4
147.5°	55.3	49.6	31.8	15.2	2.7	2.3	3.8	5.3	5.7
150°	50.8	44.7	28.8	14.0	2.7	2.3	3.4	4.5	5.3
152.5°	45.8	38.6	25.8	12.9	2.7	2.3	3.0	4.2	4.5
155°	40.9	33.7	23.1	11.7	3.0	2.3	2.7	3.4	4.2
157.5°	36.7	29.2	20.5	10.6	3.0	1.9	2.7	3.0	3.4
160°	31.8	25.0	18.2	9.5	3.0	1.9	2.3	2.7	3.0
162.5°	28.0	20.8	15.9	8.7	3.0	1.9	2.3	2.3	2.7
165°	23.9	17.4	13.3	8.0	3.0	1.9	1.9	1.9	2.3
167.5°	19.3	13.6	11.0	7.2	3.0	1.9	1.9	1.5	1.9
170°	14.4	10.2	9.1	6.4	3.0	1.9	1.5	1.1	1.5
172.5°	6.4	8.0	7.2	5.7	3.4	1.9	1.5	1.1	0.8
175°	3.4	5.7	5.7	4.9	3.4	1.9	1.5	1.1	0.4
177.5°	2.7	3.4	4.2	4.2	3.4	2.3	1.5	0.8	0.4
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



TEST NUMBER: P892606  
 CATALOG NUMBER: 2MB-3SL-ASMF-UNV-L835

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.86	21.34	20.36	21.84	22.38	18.73	20.21	19.24	20.71	21.26
	3H	21.95	23.30	22.47	23.81	24.39	20.57	21.92	21.09	22.43	23.01
	4H	22.89	24.17	23.43	24.70	25.29	21.29	22.57	21.83	23.10	23.69
	6H	23.81	25.00	24.37	25.54	26.16	21.89	23.08	22.45	23.62	24.24
	8H	24.25	25.38	24.81	25.95	26.56	22.13	23.27	22.69	23.83	24.45
	12H	24.67	25.76	25.24	26.32	26.96	22.33	23.42	22.90	23.98	24.63
4H	2H	20.34	21.62	20.88	22.14	22.74	19.30	20.58	19.84	21.11	21.71
	3H	22.66	23.74	23.21	24.31	24.93	21.33	22.42	21.88	22.99	23.61
	4H	23.77	24.77	24.34	25.34	25.99	22.16	23.16	22.73	23.74	24.38
	6H	24.88	25.76	25.47	26.36	27.02	22.88	23.76	23.48	24.37	25.03
	8H	25.41	26.23	26.00	26.84	27.51	23.18	24.00	23.77	24.61	25.28
	12H	25.94	26.69	26.56	27.32	28.00	23.44	24.19	24.06	24.82	25.50
8H	4H	24.02	24.85	24.62	25.45	26.12	22.51	23.33	23.10	23.94	24.61
	6H	25.30	26.00	25.93	26.65	27.33	23.36	24.06	23.99	24.70	25.38
	8H	25.97	26.60	26.61	27.26	27.95	23.74	24.37	24.38	25.02	25.71
	12H	26.68	27.24	27.32	27.88	28.64	24.09	24.66	24.74	25.30	26.06
12H	4H	24.03	24.79	24.65	25.42	26.10	22.57	23.32	23.19	23.95	24.63
	6H	25.35	25.99	26.00	26.64	27.33	23.47	24.10	24.11	24.76	25.45
	8H	26.10	26.66	26.74	27.30	28.06	23.91	24.48	24.56	25.12	25.88